

Sandia's Approach to On-Site Preventive Health

Rob Nelson

Sandia National Laboratories (HBE)
Health, Benefits and Employee Services





Biography

Rob Nelson is the Manager of Healthcare and Support Services at Sandia National Laboratories in Albuquerque, NM. Rob has been at Sandia since 2005. Prior to Sandia, Rob worked as the Chief Information Officer for a large US financial services company. Rob's work at Sandia has focused on creating ways to tell Sandia's healthcare story through numbers and finding ways to focus preventive programs on the areas that matter the most.

Let's talk

What is a comprehensive corporate healthcare experience?

Measure success by clinical outcomes of onsite and offsite services and let the data drive the ROI and mold program decisions.

What data do you need to capture?

Comprehensive Healthcare

Employer Managed

Onsite + Offsite Healthcare Plan Services

= Better health outcomes, lower cost and a higher standard of continuous care

when

Targeted by real data to the specific, present and predictable, evidence-based needs of the covered populations

A Little Bit About HBE

Sandia is a DOE national laboratory dedicated to helping our nation secure a peaceful and free world through technology.



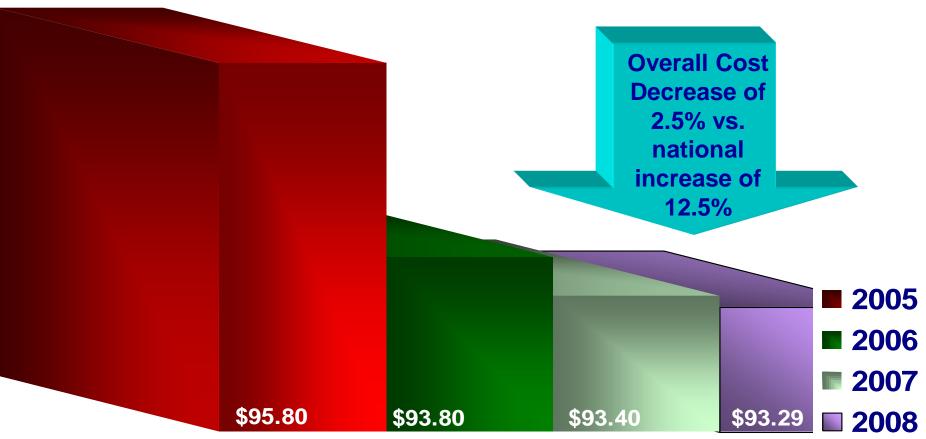
Onsite corporate health clinics reside in the same organization as our healthcare benefits plans

Budget of \$9.8 million

Self-insured corporation



Sandia Beats Rising Healthcare Cost Trends



Source: Sandia accounting reports

NOTE: These costs are subject on a total dollar basis (not PEPY, as shown under benchmark data), and are subject to accounting entry timing, but are nonetheless generally indicative of overall Sandia trends.

The HBE Team

Multidisciplinary team of healthcare professionals, health educators, dieticians, exercise, and contract specialists, doctors, nurses, case managers, community providers, data systems and communications unified by a commitment to provide the best in evidence-based health care.



The Practice

Remove barriers to diagnosis and treatment, and provide convenient access to health care, patient education, and work closely with physicians and the healthcare plans

from healthcare plan claims, onsite clinic visits, and health risks of the populations

Analyze outcome measures and data to show that the programs work and provide a quantifiable return on investment based on clinical outcome

Comprehensive Long Term Strategy to Control Cost Trends

prevention

healthy lifestyle screening safety

risk modification

weight loss smoking cessation cholesterol lowering drugs

promote consumerism

responsibility for one's own health informed purchase of health care services

reduce complications

of costly chronic disease

patient education adherence to best treatment guidelines

disease management

Look at the present and future outcomes for the strategy

Look at the Populations

Who are the covered populations and how much does their health cost now and in the future?

- Health Risk Assessment Data
- Onsite Clinical Services Usage Data
- Healthcare Plans Claims Data
- Offsite Medical Services Usage Data
- Evidence-based Prevention and Predictive Data

Measure the programs by the same outcome standards



Know Your Employees

About 9272 employees

- Very low turnover
- Average age is 4870% male

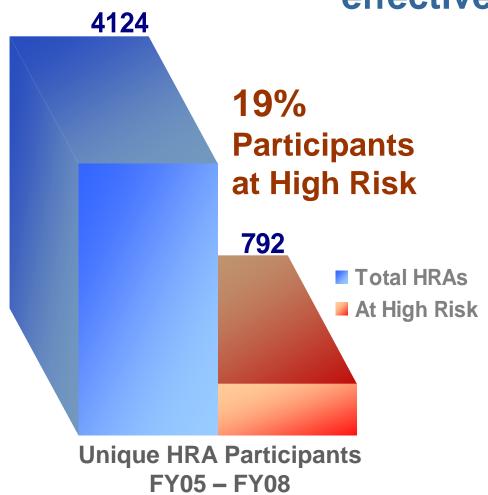
31,706 lives covered by our healthcare plans (spouses, dependents, retirees, survivors)



Using HRA data to measure program effectiveness

Leading Indicator:

The total number of elevated risk factors (5 or greater) is a good predictor of future health problems, healthcare utilization, and health care costs of both individuals and populations



Advanced Data Analytics

19.99% of insured lives had a cancer claim in 2008 = 1 in 5

5597 unique claimants / 28000 insured lives (including dependents, spouses,

Diagnosis Category	TRICEL	enefits aid - Sum	Visits - Count	Total Unique Claimants
Ca of Head And Neck	\$2	11,369	96	5,597
Ca of Esophagus	\$9	,372	18	5,597
Ca of Stomach	\$2	0,289	27	5,597
Ca of Colon	\$4	28,556	432	5,597
Ca of Rectum And Anu	s \$7	4,706	137	5,597
Ca Liver/Hepatic Bile D	uct \$2	02,505	49	5,597
Ca of Pancreas	\$2	25,210	232	5,597
Ca GI Organs Peritone	um \$3	7,806	43	5,597
Ca of Bronchus Lung	\$6	22,788	418	5,597
Ca Oth Resp/Intrathor	acic \$6	,855	8	5,597
Ca Bone/Connective T	issue\$1	.68,084	124	5,597
Melanomas of Skin	\$1	18,127	166	5,597
Skin Ca Non Epithelial	\$3	00,518	637	5,597
Ca of Breast	\$1	,402,837	1,3 <mark>79</mark>	J,J97
Ca of Oterus	\$4	-7,236	52	5,597
Ca of Cervix	\$2	3,743	58	5,597
Ca of Ovary	\$2	2,530	92	5,597
Ca Oth Female Genital Organ	\$4	,590	39	5,597
Ca of Prostate	\$4	94,461	882	5,597
Ca of Testis	\$1	.2,986	13	5,597
Ca of Bladder	\$5	7,814	160	5,597
Ca of Kidney/Renal Pel	vis \$1	.21,574	88	5,597
Ca Oth Urinary Organ	\$1	,822	2	5,597

Own your healthcare claims data

Look for prevention opportunities

Opportunity to reduce Breast Cancer claims

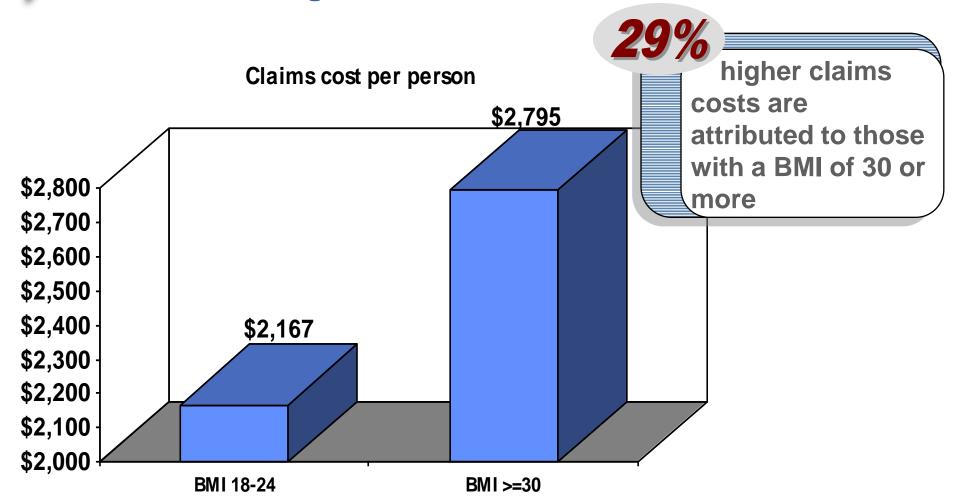
Sandia National Laboratories Health, Benefits, and Employee Services http://hbe.sandia.gov

Look Deep into the Data

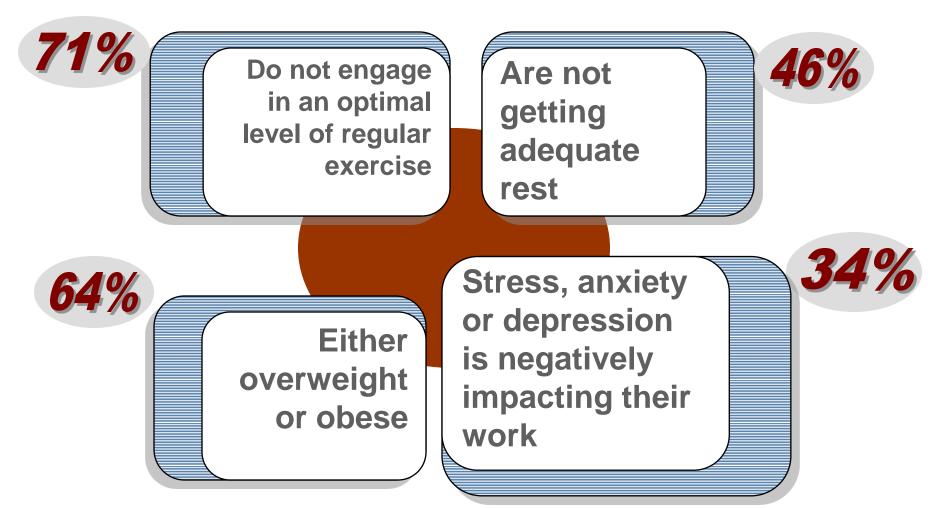
Is our population adhering to mammography recommendations?



Organizational Health Data aligned with Healthcare Plan Claims Data



Population based management using key risk factors (n=2589)



Episode Risk Grouping (ERG)

Male, Age 58 – Prospective Risk Score, Commercial

ETG	ERG	Weight	
027 – Insulin dependent diabetes, with co-morbidity	02.01 – Insulin dependent diabetes, with co-morbidity	1.893	
267 — CHF, w co-morbidity	08.03 — CHF	3.448	
438 – Ulcer, simple	11.01 - Ulcer	0.734	
678 – Minor inflammation of skin	17.01 – Lower cost derm, I	0.076	
Age-Sex	Age-Sex Group		
Male, 58	Males, 55 to 64	0.833	
Total Prospective Risk Score	6.984		

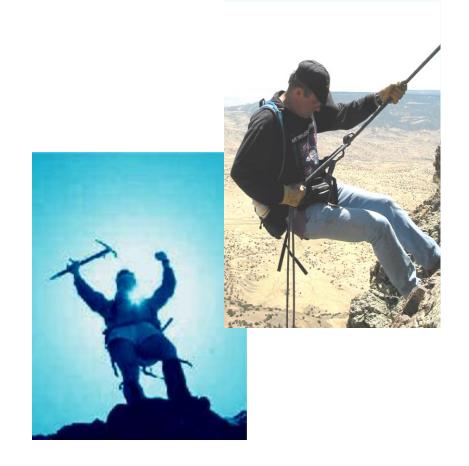
Note: Commercial, non-elderly ERG model.

Episode Risk Grouping (ERGs) is a risk assessment model which generates a relative risk score for each member of the population. Individual scores can be rolled up to create relative risk scores for groups (e.g., business units, locations).

Why deliver medical services at the workplace?

Increased opportunity to target high risk individuals through mandatory surveillance exams and provide workplace access to care

Integrated disability management blurs the line between occupational and non-occupational illnesses and injuries – the real costs are in non-occupational cases





- Increased level of care
- Decreased cycle time for care
- Increased focus on prevention
 - ≥ HEDIS/Healthy People 2010
 - Increased productivity
 - Cost savings



Making the Business Case for an Onsite Clinic Save Lost Time FY08 Cost Savings

HBE Onsite Clinics
39,191 visits
(not including Preventive and EAP)

If you assume 1 – 2 hours time away from work at an average salary band total savings to Sandia would be \$2,208,099 - \$4,416,199



Why focus on prevention and disease management?

"Employers can see a return of \$3 to \$6 for each dollar spent over two to five years on workplace health program strategies."

American Journal of Preventive Medicine, December 2005







Lifestyle habits account for half of all premature deaths

Are the primary cause of six of the top ten causes of death

Accelerate the onset of disability by nearly a decade

Account for a quarter to half of medical care costs

Preventive Medicine Identifies

THE WELL

Nutrition services

Fitness services

Stress Management

Ergonomics/Back Care

Workgroup Programs

DISEASE RISK

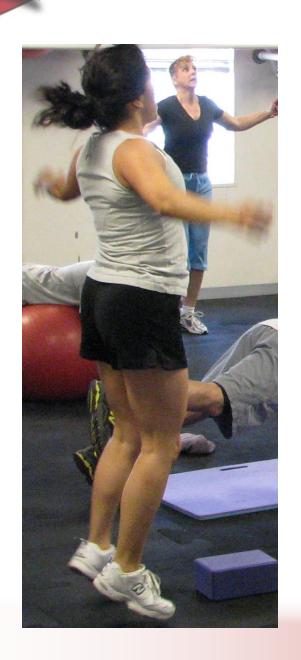
Diabetes

Hypertension

Hyperlipidemia

Obesity

Nicotine Addiction



Health Promotion Program Budget FY08

Operating Budget FY08: \$583,673

Cost per participant (n= 4219) per year \$138

Cost per employee per year \$63



Disease Management Program Evolution

Lipid and Hypertension Clinics 2004

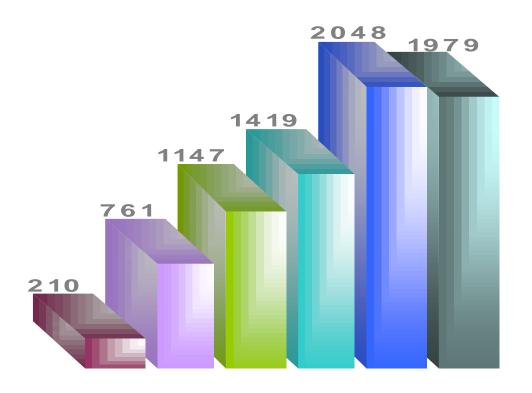
Obesity Clinic Pilot Program 2006

Depression
Clinic
2009

Diabetes Pilot Program 2001 Supervised
Exercise
Program
2005

Smoking Cessation 2006

Disease Management Program



Proven to positively influence the health, productivity and quality of life of the 1,979 program participants.

PILOT FY04 FY05 FY06 FY07 FY08

Sandia's Diabetes Clinic Pilot Program opened July 2001



Healthy People 2010 Goals DMC - Diabetes Results

Increase the number of participants who receive formal diabetes education. (SNL Certified Diabetes Educator-CDE)

Increase the number of participants who have at least an annual foot exam. (SNL Podiatrist)

Increase the number of participants who have an A1c measurement at least once a year.

	Healthy People 2010 Goal (2005 Mid-Review)	Sandia Achievement FY06 (CY05/CY04)
CDE	60% (45)	66% (79/86)
Podiatry	75% (68)	76% (80/92)
A1c	65% (59)	86% (87/97)

DMC Mission Success Pre/Post A1c Results

A1c Level	Pre A1c N (% Pop)	Post A1c N (% Pop)	% Percent Change
<7.0%	109 (57%)	121 (63%)	10% Increase
7.0-9.0%	50 (26%)	58 (30%)	14% Increase
>9.0%	32 (17%)	12 (6%)	63% Decrease



Diabetes HEDIS Standards

Diabetes Standards	DMC	CIGNA	United	National
Annual A1C	86%	73%	87%	87%
Poor Control >9.0%	6%	55%	41%	31%
Annual LDL	85%	73%	91%	92%
Good Control LDL <130	92%	48%	62%	68%
Optimal Control LDL <100	67%	-	41%	44%
Annual Eye Exam	35%	38%	49%	55%
Annual Kidney Screen	57%	51%	54%	55%



Make or Buy CPT Comparison \$ 1,954,048

Improved Health Outcomes \$ 1,852,415

Travel Time Saved Secondary to Services On-site \$ 584,635

Total \$ 4,391,098



Sandia DMC Clinic Return on Investment

1:3.64

For every \$1.00 spent on Sandia's DMC, a savings of \$3.64 is realized.

Sample metrics for onsite services YTD through Q2 FY09

Onsite service(s)	Total cost	Cost / capita	# of visits YTD FY09	# of patients YTD FY09	CSAT	
Disease Management Clinic	\$502K	\$54	6,987	1,821	9.24	
Preventive Health Services	\$261K	\$28	12,762	2,708	9.31	
Personal Healthcare	\$1.2M	\$129	7,227	3,323	8.94	
Physical Therapy	\$235K	\$25	2,325	400	9.42	

Learn More

Visit us on the web at http://hbe.sandia.gov

Healthcare Cost Containment – think prevention

https://hbeupdate.custhelp.com/app/answers/detail/a_id/973

Why employers provide on-site health clinics

https://hbeupdate.custhelp.com/app/answers/detail/a_id/866

One in Three – coming to work with undiagnosed hypertension

https://hbeupdate.custhelp.com/app/answers/detail/a_id/1235

One in Five – Sandia community treated for cancer

https://hbeupdate.custhelp.com/app/answers/detail/a_id/1309